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**Life Science Cells: The Basic Units of Life Outline (Ch.3)**

*Vocabulary*: Define in your own words

Cell-

Cell membrane-

Organelle-

Nucleus-

Cell wall-

Ribosome-

Endoplasmic Reticulum-

Mitochondrion-

Golgi complex-

Vesicle-

Lysosome-

Structure-

Function-

**Respond to the following questions/prompts:**

State the three parts of the cell theory. Also, include the scientists who came up with each of the three parts of the cell theory. (4 pts)

Why are cells so small? Explain how it benefits organisms to have small cells. (2 pts)

How are prokaryotic cells different than eukaryotic cells? Be specific in your explanation. Also, give an example of a prokaryotic organism and a eukaryotic organism. (4 pts)

Describe how bacteria are different from archaea and how they are similar to eukaryotes. Also, list the three types of archaea. (3 pts)

How are animal cells different than plant cells? List at least two differences. (2 pts)

List the three benefits of being multicellular versus being single-celled. (1 pt)

Define and describe the four levels of organization in living things. (4 pts)

***ABOUT THE READING:***

Write three things that you learned about Cells:

***Make sure to write a full sentence.***

*Example: I learned that prokaryotic cell does not have a nucleus and that a eukaryotic cell does have a nucleus.*

*1.*

*2.*

*3.*

**ASSIGNED WORK:**

*Draw a eukaryotic cell with all the organelles included. Make sure your drawing give an accurate representation of location and appearance of each cell organelle. (8 pts)*